Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Original) A method comprising:

detecting a phone in an off-hook state;

retrieving with a telephony server information associated with a user assigned to the

phone;

generating a custom input grammar with the telephony server using the information;

generating a dial-tone with the telephony server;

receiving with the telephony server a command spoken into the phone;

processing the spoken command with the telephony server to locate a corresponding

entry in the custom input grammar; and

executing a command operation associated with the corresponding entry.

2. (Original) The method of claim 1, wherein the custom input grammar is not generated until

an identification of a person who spoke the command is performed, and wherein the custom

input grammar is then generated based on the particular profile of the person.

3. (Original) The method of claim 1, wherein said processing comprises:

sending the spoken command to a speech recognition server, said speech recognition

server processing the spoken command, locating the corresponding entry in the custom input

grammar, and returning the corresponding entry to the telephony server.

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4. (Original) The method of claim 3, wherein the speech recognition server verifies the identity

of a person that spoke the command to ensure the person is authorized to access the custom input

grammar before locating the corresponding entry in the custom input grammar.

5. (Original) The method of claim 1, wherein the custom input grammar is generated from a

text-based contacts database associated with the user assigned to the phone.

6. (Original) The method of claim 5, wherein the spoken command is a name of a person in the

text-based contacts database associated with the user assigned to the phone.

7. (Original) The method of claim 1, wherein the command is spoken into the phone by a

person other than the user assigned to the phone.

8. (Original) The method of claim 1, wherein said generating the custom input grammar is only

performed if the custom input grammar does not already exist for the user associated with the

phone or if the custom grammar exists but needs updated due to modifications in an underlying

data source.

9. (Original) The method of claim 1, wherein the dial-tone is cancelled when the telephony

application processor begins receiving the command spoken into the phone.

Response to First Non-Final Office Action Application No. 10/666,956; Group Art Unit 2626 P644US:#480107 10. (Original) The method of claim 1, wherein said processing the spoken command with the telephony application processor comprises:

sending a recognition request to a speech recognition server;

receiving a probing request from the speech recognition server;

sending a UDP probe response message to a probing port number of the speech recognition server;

sending the spoken command to the speech recognition server, said speech recognition server determining a translated result based on the custom input grammar; and receiving the translated result from the speech recognition server.

11. (Withdrawn) A method comprising:

providing a probing endpoint for a first server;

receiving at a second server a port number of the probing endpoint of the first server;

receiving at the second server a delivery request for which probing is requested from the first server; and

sending a UDP probe response message to the port number of the first server.

12. (Withdrawn) A method comprising:

providing a probing endpoint for a speech recognition server;

receiving at a telephony server a port number of the probing endpoint of the speech recognition server;

receiving at the telephony server an audio delivery request for which probing is requested from the speech recognition server; and

sending a UDP probe response message to the port number of the speech recognition

server.

13. (Withdrawn) The method of claim 12, further comprising:

receiving the probe response message at the speech recognition server.

14. (Withdrawn) The method of claim 13, further comprising:

reviewing an identifier contained in the probe response message to confirm the probe

response message was received from the requested telephony server.

15. (Withdrawn) The method of claim 12, further comprising:

sending at least one audio packet to the speech recognition server.

16. (Withdrawn) The method of claim 15, wherein the at least one audio packet sent to the

speech recognition server was a command spoken into a phone and received by the telephony

server.

17. (Withdrawn) The method of claim 12, wherein said receiving at the telephony server the

port number of the probing endpoint occurs when the telephony server first requests a

recognition operation from the speech recognition server.

18. (Withdrawn) The method of claim 12, wherein the probing endpoint has a same IP address

as used for delivering audio to the speech recognition server.

Response to First Non-Final Office Action Application No. 10/666,956; Group Art Unit 2626 P644US:#480107 19. (Withdrawn) A method comprising:

providing a probing endpoint for a speech recognition server; and

sending from the speech recognition server a plurality of probing requests to a telephony server until the telephony server sends a UDP probe response message or until a predetermined quantity of missed probes has been exceeded.

20. (Withdrawn) A method comprising:

providing an audio streaming packet;

receiving an RTP physical sequence number associated with the streaming audio packet; receiving a last logical sequence number that was most recently generated; and generating a new logical sequence number by a process comprising:

adding a fixed-size kilobyte amount to the RTP physical sequence number; generating a scale factor by subtracting the fixed-size kilobyte amount from the last logical sequence number and masking off from the result a plurality of bits from a lowest bit range; and

adding the scale factor to the RTP physical sequence number.

21. (Withdrawn) The method of claim 20, further comprising:

adjusting the new logical sequence number using a revised scale factor if the new logical sequence number is not within a certain predetermined range of the last logical sequence number.

22. (Withdrawn) The method of claim 20, wherein the process repeats for each of a plurality of

audio streaming packets received.

23. (Withdrawn) The method of claim 22, wherein the new logical sequence number of each of

the plurality of audio streaming packets is used to reassemble the plurality of packets into a

logical order.

24. (Withdrawn) A method comprising:

allocating an internal buffer list with a plurality of fixed size buffers totaling a maximum

receive packet size;

passing the internal buffer list to an operating system as a scatter/gather array;

filling at least a portion of the plurality of fixed size buffers in order when a packet is

received; and

freeing the unused fixed size buffers back to the internal buffer list.

25. (Withdrawn) The method of claim 24, wherein the packet is a streaming audio packet.

26. (Withdrawn) The method of claim 25, wherein the streaming audio packet contains

information to be processed by a speech recognition server.

27. (Withdrawn) The method of claim 26, wherein the information to be processed by the

speech recognition server includes a command that was spoken into a phone.

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28. (Original) A system comprising:

a speech recognition server; and

a telephony application server coupled to the speech recognition server over a network, the telephony application server being operative to detect a phone in an off-hook state, retrieve information associated with a user assigned to the phone, generate a custom input grammar using the information, generate a dial-tone, receive a command spoken into the phone, send the spoken command to the speech recognition server, receive a corresponding entry based on the custom

community to the special recognition solver, receive a corresponding emay cases on the castom

input grammar from the speech recognition server and execute a command operation associated

with the corresponding entry.

29. (Original) The system of claim 28, wherein the speech recognition server is operative to

support a plurality of speech recognition engines.

30. (Original) The system of claim 28, wherein the speech recognition server is operative to

send a port number of a probing endpoint to the telephony application server, send a probing

request to the telephony application server, and receive from the telephony application server a

UDP probe response message at the port number.

31.-33. (Canceled)

34. (Original) A system comprising:

multiple speech recognition engines residing on one or more speech recognition servers;

and

Response to First Non-Final Office Action Application No. 10/666,956; Group Art Unit 2626 P644US:#480107 a telephony server having a telephony application processor operable to translate vendor-

neutral interfaces to and from a specific syntax required by each of the multiple recognition

engines.

35. (Original) The system of claim 34, wherein the telephony application processor is operable

to perform speaker identification and verification as part of a recognition operation.

36. (Original) The system of claim 34, wherein the telephony application processor is operable

to send recognition requests to at least two of the multiple speech recognition engines at the same

time.

37. (Original) A method, comprising:

offering a telephony application interface routine including a voice recognition interface

operable with multiple speech recognition engines;

providing the telephony application interface to a first customer having a pre-established

grammar for a first one of the speech recognition engines;

the first customer operating the telephony application interface with the pre-established

grammar of the first one of the speech recognition engines;

providing the telephony application interface to a second customer having a second one

of the speech recognition engines; and

the second customer operating the telephony application interface with the second one of

the speech recognition engines.

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38. (Canceled)

39. (Original) A method comprising:

detecting a user being connected to a telephony server;

identifying the user;

retrieving information associated with the user;

generating a custom input grammar using the information;

receiving with the telephony server a command spoken by the user;

processing the spoken command to locate a corresponding entry in the custom input

grammar; and

executing a command operation associated with the corresponding entry.